

Supermal Karawaci Saves Energy with PrimaSaver®

Business Challenge

Supermal Karawaci is a shopping center located in the Lippo Village area, Tangerang. Originally known as Mega Mall Lippo, it has changed the name a couple times from Lippo Supermal to its current name that is used since 1998.

Established in 1992, Supermal Karawaci initially has an area of 32.000 m² until it was expanded to 72.000 m² in 1995. As today, Supermal Karawaci has an area of 125.000 m² wide and is one of the most sumptuous shopping centers in the Tangerang area.



Supermal Karawaci was totally renovated in 2012-2013 by adding a third floor for various new tenants. After the last renovation, Supermal Karawaci currently has more than 600 tenants.

For the entertainment aspect, Supermal Karawaci has three cinemas namely The Premiere, XXI and Studio 21. This mall also has three game centers, namely Lollipops, Timezone and soon to be opened, Amazone. For the record, Timezone in Supermal Karawaci is the largest Timezone in Southeast Asia with an area of 9000 m².

As one of the major shopping centers, Supermal Karawaci supposedly requires a large amount of power too in terms of electricity supply. The amount of electricity supply needed will be directly proportional to the amount of the bill that must be paid. With a tool that can be used to save electricity usage, the cost of electricity bills can also be cut, including saving energy consumed.

Solution

PrimaSaver is a tool that compensates for losses (active + reactive) that occur due to loading on the electricity network for efficient use of electrical energy. The savings that occur will depend on the quality of the tool, the age of the tool and the loading characteristics.



The PrimaSaver system was designed by PT Imani Prima to reduce the active power or kWh by at least 15%. There will be efficiency regarding the bills every month. PrimaServer itself has been certified by B2TKE BPPT and savings can be made in real-time via application login, both laptop and cellular. Thus, it will be very easy to monitor electricity savings anywhere and anytime.

Results

- Improve the quality of electricity
- Can save at least 15% kWh used
- Has been tested and meets the requirements of the Center for Energy Conversion Technology (B2TKE-BPPT)
- Two-year warranty after installation
- Lifespan up to 10 years
- Can be monitored real-time remotely with a web login
- ROI < 36 months

One of PrimaSaver users is the Supermal Karawaci shopping center. Supermal Karawaci can save 18-20% kWh used, more than the least, 15% kWh. The large power savings are certainly beneficial in terms of users, in this case shopping centers when paying electricity bills. In addition to cost, energy savings can also occur through the use of this PrimaSaver. It is hoped that other large industries such as hotels or factories can also use PrimaSaver to save power consumption as Supermal Karawaci has experienced.